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NOTICE OF ALLOWANCE AND FEE(S) DUE

23850

7590

01/10/2011

KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. 4th Floor WASHINGTON, DC 20005 EXAMINER

APICELLA, KARIE O

ART UNIT PAPER NUMBER

1726

DATE MAILED: 01/10/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,961	08/18/2006	Yoshiaki Matsunami	060623	1062

TITLE OF INVENTION: SEPARATOR FOR LEAD-ACID BATTERY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/11/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

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1420 K Street, N 4th Floor				Cer	tificate	e of Mailing or Transı	
WASHINGTON	, DC 20005						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	3	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/589,961 ITLE OF INVENTION	08/18/2006 : SEPARATOR FOR LE	EAD-ACID BATTERY	Yoshiaki Matsunami			060623	1062
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	04/11/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
APICELLA	, KARIE O	1726	429-250000	J			
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto	rinting on the patent front page, list names of up to 3 registered patent attorneys ts OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is no name will be printed.			
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE		(B) RESIDENCE: (CIT	assignment. Y and STATE OR C	COUNT	TRY)	ocument has been filed for up entity
a. The following fee(s) a Issue Fee Publication Fee (N		4b	b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb	ase first reapply ard. Form PTO-2038	is atta	riously paid issue fee suched.	hown above)
a. Applicant claims	t us (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no lor	-			-
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Authorized Signature	Signature Date						
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10/589,961 08/18/2006		Yoshiaki Matsunami	060623 1062		
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KRATZ, QUINT	OS & HANSON, LI	APICELLA	, KARIE O		
1420 K Street, N.V	V.	ART UNIT	PAPER NUMBER		
4th Floor WASHINGTON, DC 20005			1726 DATE MAILED: 01/10/201	1	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 544 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 544 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/589,961	MATSUNAMI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Karie O'Neill Apicella	1726				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communication is seand MPEP 1308.	this application. If not included inication will be mailed in due course. THIS ubject to withdrawal from issue at the initiative				
1. A This communication is responsive to the pre-appeal confer	rence decision dated Novem	<u>ber 12, 2010</u> .				
2. ☑ The allowed claim(s) is/are <u>1 and 3-8</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicatio	n No				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview St Paper No./ 7. ☐ Examiner's	formal Patent Application Jammary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance				

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DETAILED ACTION

1. Claims 1 and 3-8 are pending in this office action.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Final Rejection Office Action issued on April 15, 2010.

Claim Rejections - 35 USC § 102

3. The rejection of Claims 1 and 3-5 under 35 U.S.C. 102(b) as being anticipated by Choi (WO 94/02995) has been overcome based on the arguments presented in the Pre-Brief Conference request dated October 14, 2010.

Claim Rejections - 35 USC § 103

- 4. The rejection of Claims 6-7 under 35 U.S.C. 103(a) as being unpatentable over Choi (WO 94/02995), as applied to Claims 1 and 3-5, and in further view of Tsuda et al. (US 6,361,865 B1), has been overcome based on the arguments presented in the Pre-Brief Conference request dated October 14, 2010.
- 5. The rejection of Claim 8 under 35 U.S.C. 103(a) as being unpatentable over Choi (WO 94/02995), as applied to Claims 1 and 3-5, has been overcome based on the arguments presented in the Pre-Brief Conference request dated October 14, 2010.

Reasons for Allowance

6. Claims 1 and 3-8 are allowed.

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7. The following is an examiner's statement of reasons for allowance: the instant invention is to a separator for a lead-acid battery comprising a porous membrane made from a polyolefin resin, an inorganic powder and a mineral oil and containing a surface active agent wherein the separator liberates or elutes 1.0 ml or less per 100 cm² of reducing substance, as calculated from a consumption of a 0.01 N potassium permanganate solution per 100 cm² of the porous membrane, when four test pieces of the separator each having a height of 10 cm and a width of 10 cm are subjected to 24 hours of electrolysis carried out at about 25 °C with a direct current of 1.2 A by using an electrolytic cell composed of the porous membrane, a positive electrode, a negative electrode and diluted sulfuric acid.

The most pertinent prior art has been presented. The prior art does not teach the claimed invention.

With regard to Claim 1, the closest prior art, Choi (WO 94/02995), does not teach or fairly suggest a separator for a lead-acid battery comprising a porous membrane made from a polyolefin resin, an inorganic powder and a mineral oil and containing a surface active agent wherein the separator liberates or elutes 1.0 ml or less per 100 cm² of reducing substance as calculated from a consumption of a 0.01 N potassium permanganate solution per 100 cm² of the porous membrane, when four test pieces of the separator each having a height of 10 cm and a width of 10 cm are subjected to 24 hours of electrolysis carried out at about 25 °C with a direct current of 1.2 A.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 1726

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karie O'Neill Apicella whose telephone number is (571) 272-8614. The examiner can normally be reached on Monday through Friday from 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karie O'Neill Apicella/ Primary Examiner Art Unit 1726 Application/Control Number: 10/589,961 Page 5

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KOA